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RP-HPLC同时测定湖北旋覆花中3种倍半萜内酯的含量

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中文摘要:目的: 建立RP-HPLC同时测定湖北旋覆花中锦菊素,二氢锦菊素,银胶菊素 3种倍半萜内酯含量的方法。 方法:Agilent C $_{18}$ 色谱柱(4.6 mm×250 mm,5 μ m),流动相为乙腈-水,线性梯度洗脱,测定波长210 nm,柱温40 $^{\circ}$ C,流速1.2 mL $^{\bullet}$ min $^{-1}$,进样量10 μ L。 结

16-果· 锦菊素... - 氢钠霉素 根胶菊素的质量浓度分别在0.017 92-0.179 2 g· L⁻¹(r =0.999 9).0.042 4-0.424 0 g· L⁻¹(r =0.999 6).0.044 8-0.448 0g· L⁻¹(r =0.999 6)时线性关系良核, "均如排回或本依次为98.5%。98.2%。98.4%。RSD为1.3%。1.3%。1.7%。 不同品种度覆花药材 中3种信牛萜内酯的含量是另枝大、结论。适方法简便、快速、准确适合于同时测定测北旋覆花中锦菊素... - 复锦菊素 · 假软菊素 的含量、可用于测北旋覆花的质量控影材和旋覆花内核的食物

中文关键词:<u>RP-HPLC</u> 湖北旋覆花 <u>倍半萜内酯</u> <u>锦菊素</u> 二氢锦菊素 <u>银胶菊素</u>

Simultaneous determination of three sesquiterpene lactones in *Inula hupehensis* by RP-HPLC

Abstract:Objective: A RP-HPLC method was developed for simultaneous determination of bigelovin, ergolide and tomentosin in Inula Inuphensis. Method: An Agilent C_{18} column $(4.6 \, \mathrm{mm} \times 250 \, \mathrm{mm}, 5 \, \mu \mathrm{m})$ was used for separation at 40 °C. The mobile phase was acetonitrile-water, and the flow rate was 1.2 mL \cdot min⁻¹. The detection wavelength was set at 210 mm. Result: The method has good linearity in the ranges of 0.0179 2 0.179 2 g \cdot L⁻¹ (r=0.999 9) for bigelovin, 0.042 4-0.424 0 g \cdot L⁻¹ (r=0.999 6) for ergolide, and 0.044 8-0.044 0.448 0 g · L¹ (r =0.999 6) for tomentosin. The average recoveries of bigelovin, ergolide, and tomentosin were 98.5%, 98.2%, 98.4%, with the RSD of 1.3%, 1.3%, 1.7%, respectively. The results demonstrated that there was a significant difference in the contents of three sequerepene lacknows among the tested mluafe Flox. Conclusion: The results indicated that the present RP-HPLC method is simple, quick and accurate, and can be used for the quality control of *I. hupehensis*, especially for the authentication of Inulae Flox.

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